

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number  
**WO 2005/068258 A3**

(51) International Patent Classification:  
**B60R 13/08** (2006.01) **B64C 1/40** (2006.01)

(21) International Application Number:  
PCT/EP2005/000039

(22) International Filing Date: 5 January 2005 (05.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10 2004 001 081.1 5 January 2004 (05.01.2004) DE  
60/600,108 9 August 2004 (09.08.2004) US

(71) Applicant (for all designated States except US): **AIRBUS DEUTSCHLAND GMBH** [DE/DE]; Kreetzlag 10, 21129 Hamburg (DE).

(71) Applicants and

(72) Inventors (for US only): **MÜLLER, Rainer** [DE/DE]; Emsener Strasse 16a, 21224 Rosengarten (DE). **TURANSKI, Peter** [DE/DE]; Kerchfeld 15, 27305 Süstedt (DE). **OESTEREICH, Wilko** [DE/DE]; Treschkowstr. 13, 28203 Bremen (DE). **REINELT, Thorsten** [DE/DE]; Tempelweg 4, 28816 Stuhr (DE).

(74) Agent: **KOPF, Korbinian**; Maiwald Patentanwalts GMBH, Elisenhof, Elisenstrasse 3, 80335 München (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

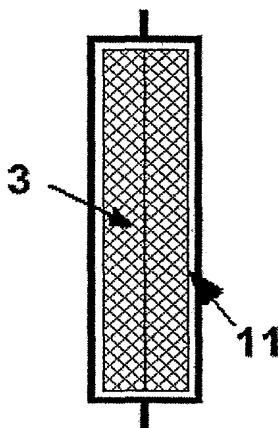
**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
27 April 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INSULATION STRUCTURE FOR THE INTERNAL INSULATION OF A VEHICLE



(57) Abstract: The present invention relates to an insulation structure for the internal insulation of a vehicle. The insulation structure will contribute to ensuring the fire protection for interior regions of the vehicle from a (conceivable) fire incursion from outside the vehicle environment, so that evacuation of the passengers from the vehicle is made significantly easier. Intended modifications to a typical insulation package will implement an elevation of the fire protection safety for separated interior regions lying proximal to a structure external skin. The insulation structure for the internal insulation of a vehicle comprises an insulation package, which is implemented using an insulation, and a film, which is positioned inside an intermediate space that includes internal paneling and an external skin of the vehicle. The insulation package is implemented homogeneously using a first insulation, whose insulation material is burn-through safe. Otherwise, the insulation package is constructed using distinct insulation regions, which are implemented using the first insulation and a second insulation, whose insulation material is burn-through unsafe. These insulation regions are positioned along a finite series and laid next to one another up to a terminating insulation region, whose insulation material is exchanged in alternating sequence. Otherwise, the insulation package is implemented homogeneously using a second insulation, whose insulation material is burn-through unsafe (fire endangered, flammable), multiple burn-through safe barrier layers being integrated in the second insulation.

WO 2005/068258 A3